BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

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IS 5920 (Part 7) : 2023
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भारतीय मानक मसौदा

प्रकाशिकी और फोटोनिक्स – ऑप्टिकल तत्वों और प्रणालियों के लिए आरेखण तैयार करना भाग 7 गैर-सहनीय डेटा

Draft Indian Standard

Optics and Photonics — Preparation of Drawings for Optical Elements and Systems Part 7 Non-Toleranced Data

ICS 01.100.20; 37.020

Optics and Photonics, PGD 39

NATIONAL FOREWORD

This draft Indian Standard (Part 7) which is identical with ISO 10110-11 : 2017 'Optics and photonics — Preparation of drawings for optical elements and systems — Part 11: Non-Toleranced data' issued by the International Organization for Standardization (ISO) will be adopted by the Bureau of Indian Standards on the recommendation of the Optics and Photonics Sectional Committee and approval of the Production and General Engineering Division Council.

This standard specifies the presentation of design and functional requirements for optical elements and systems in technical drawings used for manufacturing and inspection. This document also specifies the permissible deviations and material imperfections when these are not explicitly indicated.

This standard has been published in thirteen parts. Part 1 of this series supersedes the originally published Indian Standard IS 5920 : 1970 'Recommendation for the preparation of drawing for optical elements and system'. Other parts in this series are:

Part 1 General
Part 2 Surface form tolerances
Part 3 Centring tolerances
Part 4 Surface imperfections
Part 5 Surface texture
Part 6 Surface treatment and coating

Part 8 Aspheric surfaces
Part 9 Wavefront deformation tolerance
Part 10 Diffractive surfaces
Part 11 Laser irradiation damage threshold
Part 12 Stress birefringence, bubbles and inclusions, homogeneity, and striae
Part 13 General description of surfaces and components

The text of ISO standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following

a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
b) Comma (,) has been used as a decimal marker while in Indian Standards, the current-practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
ISO 10110-5 : Optics and photonics — Preparation of drawings for optical elements and systems — Part 5: Surface form tolerance	IS 5920 (Part 2) : XXXX/ISO 10110-5 : 2015 Optics and photonics — Preparation of drawings for optical elements and systems : Part 5 Surface form tolerance	Identical
ISO 10110-6 : Optics and photonics — Preparation of drawings for optical elements and systems — Part 6 : Centring tolerance	IS 5920 (Part 3) : XXXX/ISO 10110-6 : 2015 Optics and photonics — Preparation of drawings for optical elements and systems : Part 6 Centring tolerances	Identical
ISO 10110-7 : Optics and photonics — Preparation of drawings for optical elements and systems — Part 7 : Surface imperfection	IS 5920 (Part 4) : XXXX/ ISO 10110-7 : 2017 Optics and photonics — Preparation of drawings for optical elements and systems : Part 7 Surface imperfection	Identical
ISO 10110-8 : Optics and photonics — Preparation of drawings for optical elements and systems — Part 8 : Surface texture	IS 5920 (Part 5) : XXXX/ ISO 10110-8 : 2019 Optics and photonics — Preparation of drawings for optical elements and systems : Part 8 Surface texture	Identical

NOTE: The technical content of draft standard is not available on website. For details, please refer to ISO 10110-11 : 2023 or contact:

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